

Elijah Bouma-Sims

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Education

Aug. 2017 — May 2021 📖 **B.S., B.A. North Carolina State University:** Computer Engineering, History
4.0 Cumulative GPA, Park Scholarship Program, History Honors Program

Employment History

Aug. 2019 — Present 📖 **Research Assistant**, Computer Science Department, College of Engineering,
North Carolina State University

May — Jul. 2020 📖 **Technical Intern**, Security Automation and Visualization Team, Cisco Inc.

Jun. — Aug. 2019 📖 **Technical Intern**, Deployment and Lifecycle Testing, SAS Inc.

Jan. — Dec. 2018 📖 **Writing Consultant**, University Tutorial Center, North Carolina State University

Jun. 2018 📖 **Residential Engineering Camp Counselor**, The Engineering Place, North Carolina State University

Research Publications

Conference Proceedings

- 1 Prasad, S., **Bouma-Sims, E.**, Mylappan, A. K., & Reaves, B. (2020). Who's Calling? Characterizing Robocalls through Audio and Metadata Analysis, In *29th USENIX security symposium (USENIX security 20)*, USENIX Association.
🔗 <https://www.usenix.org/conference/usenixsecurity20/presentation/prasad>

Posters/Presentations

- 1 Prasad, S., Mylappan, A. K., **Bouma-Sims, E.**, & Reaves, B. (n.d.). *Who's Calling? Characterizing Robocalling Campaigns*. Poster presented by S. Prasad at Network and Distributed System Security Symposium 2020, San Diego, California and by **E. Bouma-Sims** at the NSF Secure and Trustworthy Cyberspace PI Meeting, Alexandria, Virginia.


Other Experience

Non-work Activities





- 2020 — Present 📖 **Trombone Rank Leader**, Power Sound of the South Marching Band
- 2019 — Present 📖 **Diversity Committee Member**, Park Scholarship Program, North Carolina State University
- 2017 — Present 📖 **Logistics Committee Member**, Krispy Kreme Challenge Charity Race
- 2018 — 2019 📖 **Service Chair**, Benjamin Franklin Scholars, North Carolina State University

Other Experience (continued)

Awards and Achievements


- 2020  **Internet Defense Award** for "Who's Calling? Characterizing Robocalling Campaigns through Audio and Metadata Analysis," *29th USENIX Security Symposium*, USENIX Association
-  **Distinguished Paper Award** for "Who's Calling? Characterizing Robocalling Campaigns through Audio and Metadata Analysis," *29th USENIX Security Symposium*, USENIX Association
-  **Security Green Belt**, Cisco Inc.
-  **Best Poster Award** for "Who's Calling? Characterizing Robocalling Campaigns," *Network and Distributed System Security Symposium 2020*, Internet Society
- 2018  **Undergraduate Research Grant** for research with Dr. Brad Reaves, North Carolina State University
- 2017  **1st Place at Freshman Engineering Design Day**, North Carolina State University
-  **Park Scholarship**, North Carolina State University
- 2016  **Eagle Scout Award**, Boy Scouts of America

Skills


- Coding  C, C++, Python, Ruby, SAS
- Software  Microsoft Office, MongoDB, Asterisk, Linux, Docker, AWS Lambda
- Other Technical  Computer Security, Networking, Circuit analysis, Data structures, Algorithms, Logic design
- General  Academic research, Academic writing, Public policy, \LaTeX typesetting

References


Dr. Brad Reaves

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Dr. William Enck

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Dr. Ross Bassett

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